

## TECHNICAL DATA SHEET

### Thermobreak<sup>®</sup> RT-LSH

<b>Material:</b>	Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied reinforced aluminium foil and pressure sensitive adhesive backing
<b>Density:</b>	25 kg/m <sup>3</sup> (foam core only)
<b>Thermal Conductivity:</b> (ASTM C518)	0.032 W/m.°K (@ 23°C mean temperature)
<b>Water Vapour Permeability:</b> (ASTM E96)	< 4.1 x 10 <sup>-15</sup> kg/Pa.s.m (basis 25mm thickness) (0.015 mg.m/N.h)
<b>Water Vapour Permeance:</b>	< 1.7 x 10 <sup>-4</sup> g/MN.s
<b>Permeability Resistance Factor:</b>	μ > 40,000 (basis 25mm thickness)
<b>Water absorption by volume:</b> (JIS K6767)	<0.1% v/v (0.00038 g/cm <sup>2</sup> )
<b>Resistance to fungi:</b> (ASTM G21)	Zero Growth
<b>Ozone Resistance:</b>	Excellent
<b>UV Resistance:</b>	Excellent
<b>Operating Temperature Range:</b>	-80 °C ~ +100 °C

### **FIRE AND SMOKE PERFORMANCE**

<b>BS 476 Parts 6 &amp; 7</b>	<b>Class 0</b>	<b>COMPLIES (BS 6853, CLASS 1a RATING)</b>
<b>BS 6853 Annex B2</b>	<b>Smoke Toxicity</b>	<b>COMPLIES (BS 6853, CLASS 1a RATING)</b>
<b>BS 6853 Annex D8.4</b>	<b>Smoke Density</b>	<b>COMPLIES (BS 6853, CLASS 1a RATING)</b>

## TOLERANCES

The following tables list tolerances for thickness, density and width of standard Thermobreak<sup>®</sup> RT-LSH products:

<b>Thickness</b>	
<b>Nominal Thickness</b>	<b>Tolerance</b>
5mm	-0.5mm / +1.0mm
6mm	-0.5mm / +1.5mm
8mm	-1.0mm / +1.5mm
10mm	-1.0mm / +1.5mm
12mm	-1.0mm / +1.5mm
15mm	-1.0mm / +2.0mm
20mm	-1.0mm / +2.0mm
25mm	-1.0mm / +2.5mm
Other thicknesses and/or tolerances subject to confirmation.	

<b>Density* (foam only)</b>	
<b>Nominal Density</b>	<b>Tolerance</b>
25 kg/m <sup>3</sup>	± 10%
*Applies to the foam core. The density of Thermobreak with reinforced aluminium foil will be higher.	

<b>Width (Sheet)</b>	
<b>Nominal Width</b>	<b>Tolerance</b>
1200mm	-0 / +20mm
Other widths and/or tolerances subject to confirmation.	

## COUNTRY OF MANUFACTURE

Thermobreak<sup>®</sup> RT-LSH insulation is manufactured in Australia and Thailand.

## ENQUIRIES

If you require any further information, please consult your local distributor or contact us at

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This information on Sekisui Foam International products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

Recommendations as to methods of post fabrication, application and use of Sekisui Foam International products are based on our experience and knowledge of the characteristics of our products and are given in good faith. As producer of the material we have no control over the application of Sekisui Foam International products and no legal responsibility is accepted for such recommendations. In particular, no responsibility is accepted by us for any system in which Sekisui Foam International products are utilised or for any application.

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